

POWERHUB



POWERHUB

Smart Energy Storage Solutions
From Businesses to Utilities

60kWh to 5MWh

**COMMERCIAL &
INDUSTRIAL**



IN BUSINESS, EVERY INTERRUPTION HAS A COST.

A momentary power outage can halt production, delay services, or disrupt customer experience. At the same time, rising electricity tariffs and peak demand charges continue to increase operational expenses often unpredictably.

Many businesses have already invested in solar to reduce costs. But a large portion of that energy goes unused during low-demand hours, while reliance on expensive grid power continues during peak times.

Somewhere between rising costs, unreliable power, and underutilized solar energy, businesses are left looking for a smarter, more dependable solution, one that works seamlessly with their operations.



THE CHALLENGES BUSINESSES FACE TODAY



Rising Energy Costs

Peak demand charges significantly increase electricity bills



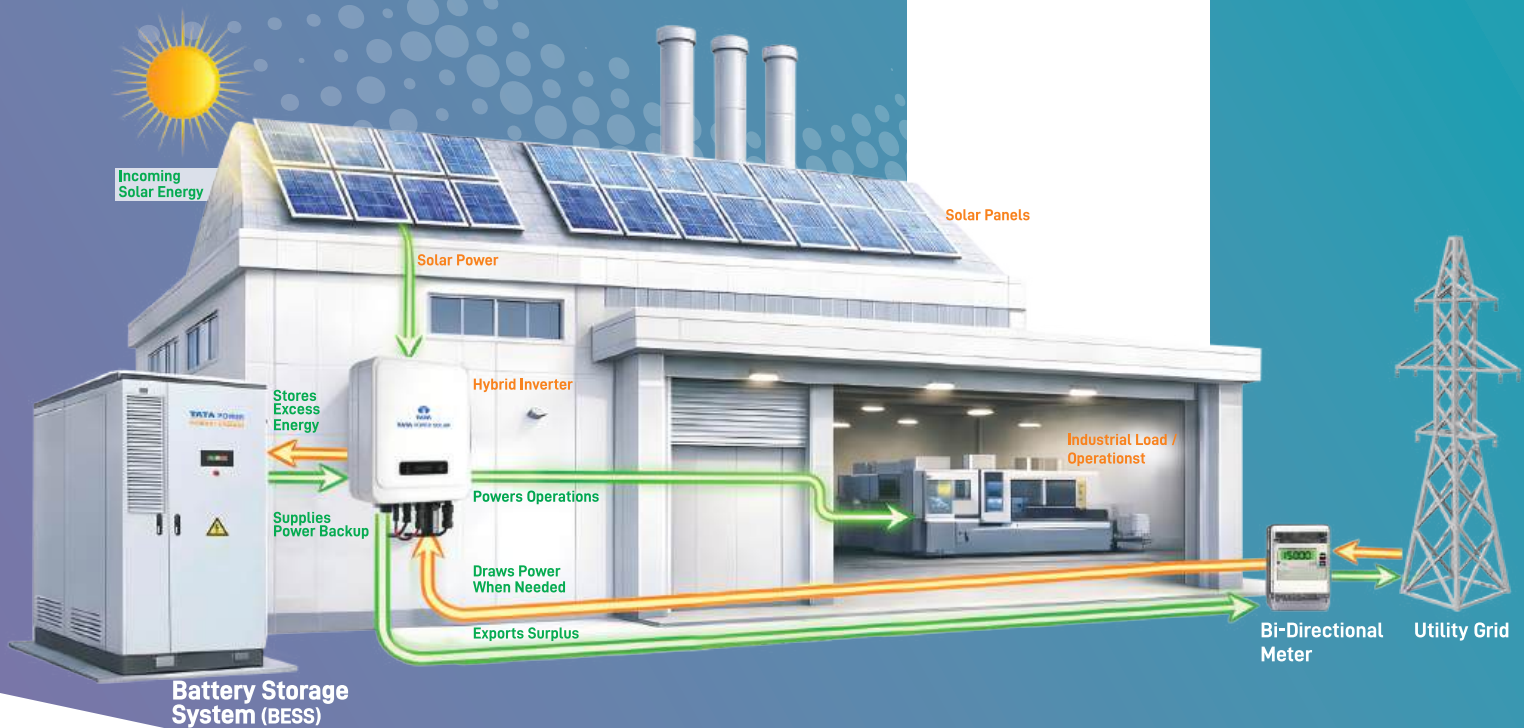
Power Instability

Voltage fluctuations and outages disrupt operations



Unused Solar Potential

Excess solar energy goes to waste during the day



CHARGED BY SOLAR. BACKED BY THE GRID. READY FOR YOU

Captures and stores excess solar energy for optimal use

Seamlessly charges from the grid when solar isn't available

Smartly balances power between solar and grid

Ensures uninterrupted power, day and night

BUILT FOR PERFORMANCE. DESIGNED FOR RELIABILITY



Smart Energy Management :

Optimizes energy usage across solar, grid, & storage



Peak Demand Optimization :

Reduces electricity costs during high-demand periods



Reliable Backup Power :

Ensures uninterrupted operations without diesel generators



Solar Energy Optimization :

Stores and utilizes excess solar efficiently



Scalable Architecture :

Modular design to grow with your business



Silent & Clean Operation :

No noise, fuel, or emissions



Stable Power Supply :

Stabilizes voltage fluctuations & protects sensitive equipment

TECHNOLOGY HIGHLIGHTS

Lithium Iron Phosphate (LiFePO₄) battery technology

High-efficiency power conversion system

Advanced thermal management

Intelligent energy management system

BATTERY ENERGY STORAGE SYSTEM PORTFOLIO



POWERHUB XTREME

Commercial | 60-600 kWh

Best suited for

-  Commercial buildings
-  Warehouses
-  Retail complexes
-  Hospitals
-  Educational institutions

Key benefits

- Peak demand management
- Backup for critical operations
- Solar energy optimization

POWERHUB MAX

Industrial | AC plug and play 261 kWh
250/400 kWh - 1.6 MWh

Best suited for

-  Manufacturing plants
-  Large commercial campuses
-  Industrial facilities

Key benefits

- Higher load capacity
- Liquid cooled system for reliability
- Engineered for demanding operations



POWERHUB ULTRA

Utility | 2.5/3.3/5 MWh



Best suited for

-  Utility scale energy storage
-  Renewable energy integration
-  Grid support

Key benefits

- Containerized modular system
- Large scale energy storage
- Renewable integration & grid stabilization

PRODUCT SPECS

	POWERHUB XTREME	POWERHUB MAX AC Plug & Play	POWERHUB MAX DC Configurable	POWERHUB ULTRA
Typical Users	SMEs & Offices	Factories, retrofit projects	Large factories, engineered projects	Large industries & energy-intensive campuses
Storage Size	Large	Very large	Very large	Extra large
Energy Capacity	60–600 kWh	261 kWh (fixed)	250/400kWh – 1.6MWh	2.5/3.3/5 MWh
System Type	Hybrid	AC Plug & Play	Configurable DC/AC	AC Coupled
Installation	Indoor	Outdoor cabinet	Outdoor cabinet	Containerised
Cooling	Air cooled	Liquid cooled	Liquid cooled	Liquid cooled
Warranty	10 years	10 years	10 years	10 years
Protection Rating	IP21	IP55	IP55	IP55
Designed For	Business continuity	Fast deployment	Large-scale engineered needs	High-capacity, long-duration storage
Inverter & Power Conversion Specifications				
Inverter Type	Hybrid	AC Coupled	AC Coupled	AC Coupled
Rated Output Power	30 kW	261 kW	Project based	2 MVA
AC Output Voltage	400 V	400 / 660 V	400 / 660 V	660 V
Grid Configuration	3 phase (4W)	3 phase	3 phase	3 phase
Backup Switch Time	<10 ms	<10 ms	<10 ms	<10 ms
Max Efficiency	≥97.8%	≥97.8%	≥97.8%	≥97.8%
Power Quality (THDi)*	<3%	<3%	<3%	<3%
In-built UPS	Yes	Yes	Yes	Yes

*THDi (Total Harmonic Distortion of current): THDi < 3% indicates very high power quality, ensuring safe operation of sensitive electrical equipment.

POWERED BY EXPERIENCE. BUILT ON TRUST.

When you choose Tata Power Solarroof, you're not just choosing a product - you're choosing a partner with decades of expertise in delivering reliable energy solutions across India.

From consultation to installation and long-term service support, every step is designed to ensure your business transitions to smarter energy smoothly and confidently.

BUILT FOR INDIA. READY FOR EVERY CONDITION.

Our systems are engineered to perform reliably across diverse and demanding environments from urban infrastructure to extreme climatic conditions.

WHY CHOOSE TATA POWER SOLARROOF



37+

years EPC experience



4 Lakh +

Customers across India



4.3+ GW

rooftop installations



700+

channel partners



Nationwide

service network



Easy

financing options



TATA POWER

BATTERY STORAGE



60 kWh
to 600 kWh



261 kWh AC



250/400 kWh – 1.6 MWh



2.5/3.3/5 MWh

POWER YOUR BUSINESS WITH SMART ENERGY STORAGE

 <https://www.tatapower.com/solarroof-enquiry>

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 Whatsapp 'Hi' on : **+91 8655412633**

OR
SCAN NOW

